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Total Number of Pages in This Submission	9	Attorney Docket Number	BP 16	522		
	ENCL	OSURES (Check a	ill that app	oly)		
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(including hard copies of non-U.S. patent reference)	] _ г	Landscape Table on C	מנ			
Certified Copy of Priority	Remark			with:		
Document(s)	prization ltr. for Dee Henderson sig authority (dated 02/08/2005) - 1 pg.					
Reply to Missing Parts/ 2. Authorization ltr. for Cust. #51472 practioners 3.73(b) sig authority (dated 2/01/2006) - 1 pg Incomplete Application 3. Executed Power of Attorney to Prosecute Applications (Form PTO/SB/80) - 1 pg.					thority (dated 2/01/2006) - 1 pg.	
Reply to Missing Parts under 37 CFR 1.52 or 1.53	<ol><li>4. Stater</li></ol>	ment Under 37 CFR 3.73(b	) (Form P	TO/SB/96	i) - 1 pg.	
Under 37 CFR 1.52 of 1.53	6. Execu	ion According Status Unde uted Assignment for BP 16	er 37 CFR 22 - 2 pgs.	1.47(a) o	opy maii	ed 06/03/2004 - 2 pgs.
		n Receipt Postcard				
SIGNA Firm Name	TURE O	F APPLICANT, ATTO	ORNEY,	OR AG	ENT	
Garlick Harriso	n & M	arkison, LLP				
/James A. Harr	ison/F	Reg. #40401				
Printed name James A. Harr	ison					
Date 03/15/2006			Reg. No.	40,4	401	
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I hereby certify that this correspondence is be sufficient postage as first class mail in an entitle date shown below:	eing facsim velope add	nile transmitted to the USP ressed to: Commissioner for	TO or depo or Patents	osited wit P.O. Bo	h the Un k 1450, /	ited States Postal Service with Alexandria, VA 22313-1450 on
Signature	~~~	Zowi				
Typed or printed name Sherry Wolf	McWb	innie			Date	03/15/2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**BROADCOM CORPORATION** 

16215 Alton Parkway, P.O. Box 57013 Irvine, California 92619-7013

> Phone: 949-450-8700 Fax: 949-450-8710

February 8, 2005

To whom it may concern:

I, Henry Samueli, hereby authorize Dee Henderson, Senior Manager, Intellectual Property Administration, to execute documents relating to US and foreign patent and trademark matters on behalf of Broadcom Corporation and/or its subsidiaries.

Henry Samueli, Ph.D. Chief Technical Officer



Phone: 949-450-8700 Fax: 949-450-8710

February 01, 2006

## TO WHOM IT MAY CONCERN

I, Dee Henderson, do hereby authorize the practitioners associated with USPTO (United States Patent and Trademark Office) Customer Number 51472 (whose information is provided below) to act on behalf of the Assignee, Broadcom Corporation, in patent related matters before the USPTO.

This authorization granted to practitioners associated with USPTO Customer Number 51472 includes the authorization to execute statements made under 37 C.F.R. §3.73(b) on behalf of the Assignee, Broadcom Corporation.

Dee Henderson

Senior Manager, Intellectual Property Administration

**USPTO CN 51472** 

Garlick Harrison & Markison LLP

P.O. Box 160727

Austin, Texas 78716-0727 TEL: (512) 264-8816

FAX: (512) 264-3735

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PTC/SB/80 (01-06)
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## POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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0, 0, 1	3.73(0).	previous powers of attorney	given in the applic	cation identified	in the attached	statement under
I hereby	appoint:					
i	ctitioners asso	ociated with the Customer Number:	5	1472		
OR			<u> </u>			
Pra	ctitioner(s) na	med below (if more than ten patent	practitioners are to be	named, then a cus	stomer number must t	e used):
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i any ang an	i patent applic	) to represent the undersigned befor ations assigned only to the undersign accordance with 37 CFR 3.73(b).	re the United States P gned according to the I	atent and Tradema USPTO assignmen	ark Office (USPTO) in nt records or assignment	connection with ant documents
		spondence address for the applicat	ion identified in the atta	ached statement u	nder 37 CFR 3.73(b)	to:
OR T	he address as	ssociated with Customer Number:	514	472		
Firm	n or vidual Name	Garlick Harrison 8	& Markison I	LLP		
Address		P.O. Box 160727				
City		Austin	State Texa	as	<sup>Zip</sup> 787	16-0727
Country		USA	7.7			
Telephon	e	(512) 264-8816	E	mail (512)	264-3735	
Assignee N	lame and Add	lress: Broadcom Corporation 16215 Alton Parkway Irvine, California 92618-70 Note: Broadcom Corporati		proration		
A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be						
filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of						
the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee,						
and must Identify the application in which this Power of Attorney is to be filed.						
SIGNATURE of Assignee of Record  The individual whose signature and little is supplied below is authorized to act on behalf of the assignee						
Signature		11 xum	<u> </u>		Date 2/1/01	6
Name	Dee Her	nderson /			Telephone (949)	450-8700
Title Senior Manager, Intellectual Property Administration						
This collection	on of information	is required by 37 CFR 1.31, 1.32 and 1	.33. The Information is re	equired to obtain or re	etain a benefit by the put	olic which is to file (and

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain of retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT UNDER 37 CFR 3.73(b)					
Applicant/Patent Owner: Anders Hebsgaard					
Application No./Patent No.: 10/698,055 File	ed/Issue Date: October 30, 2003 (10/30/2003)				
Entitled: DOCSIS MAC Layer-Based ARQ for Fixed	Wireless				
Broadcom Corporation , a					
(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)				
states that it is:  1. the assignee of the entire right, title, and interest; of	or				
2. an assignee of less than the entire right, title and in The extent (by percentage) of its ownership interest.					
in the patent application/patent identified above by virtue	of either:				
in the United States Patent and Trademark Office a thereof is attached.	application/patent identified above. The assignment was recorded at Reel, Frame, or for which a copy				
B. A chain of title from the inventor(s), of the patent appearance.	pplication/patent identified above, to the current assignee as shown				
1. From:	To·				
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2. From:	То:				
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3. From:	To:				
The document was recorded in the United States Patent and Trademark Office at					
Reel, Frame	, or for which a copy thereof is attached.				
Additional documents in the chain of title are list	ed on a supplemental sheet.				
Copies of assignments or other documents in the cha [NOTE: A separate copy ( <i>i.e.</i> , a true copy of the origin Division in accordance with 37 CFR Part 3, if the MPEP 302.08]	in of title are attached. nal assignment document(s)) must be submitted to Assignment assignment is to be recorded in the records of the USPTO. See				
The undersigned (where title is supplied below) is sufficient	ized to get an habelf of the project				
The undersigned (whose title is supplied below) is authority /James A. Harrison/Reg. #40401	zed to act on behalf of the assignee.  March 15, 2006				
Signature James A. Harrison, Reg. No. 40,401	Date (214) 902-8100				
Printed or Typed Name	Telephone Number				
Practitioner associated with USPTO CN 51,472					
Title	<del></del>				

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



James A. Harrison P.O. Box 670007 Dallas, TX 75367



United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 2213-1450 Commissioner for Patents

Paper No.

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JUN 0 3 2004

OFFICE OF PETITIONS

In re Application of Anders Hebsgaard and Mark Dale Application No. 10/698,055 Filed: October 30, 2003 Attorney Docket No. BP 1622 Title: DOCSIS MAC LAYER-BASED ARQ FOR FIXED WIRELESS

DECISION ACCORDING STATUS UNDER 37 CFR 1.47(a)

This is a decision on the PETITION UNDER 37 CFR 1.47 filed April 6, 2004 (certificate of mailing April 2, 2004).

The petition is **GRANTED**.

The above-identified application was filed on October 30, 2003, with an unexecuted declaration, missing the basic statutory filing fee and with additional claim fees due. Anders Hebsgaard and Mark Dale were named as joint inventors. Accordingly, on February 2, 2004, a "Notice to File Missing Parts of Nonprovisional Application" was mailed, requiring an executed oath or declaration, the basic filing fee, the additional claim fees and a surcharge for late filing.

In response, rule 47 applicant timely filed the instant petition (and fee); the late surcharge; the outstanding filing fees and a declaration executed by inventor Hebsgaard on behalf of himself and on behalf of non-signing inventor Dale. Rule 47 applicant maintains that status under 37 CFR 1.47 is proper because joint inventor Dale has refused to join in the application for patent.

By declaration of facts of attorney James A. Harrison, with supporting documentary evidence, petitioner has shown that the application papers were presented to inventor Mark Dale by regular mail and by certified mail - return receipt requested. By his conduct in not responding to the presentation of the application papers and request to sign the declaration, inventor Dale has refused to join in the application. The petition includes payment of the petition fee and the last known address of inventor Dale.

The declaration filed April 6, 2004, and the petition have been reviewed and found in compliance with  $37\ \text{CFR}\ 1.47(a)$ .

This application is hereby accorded Rule 1.47(a) status. As provided in new Rule 1.47(c), this Office will forward notice of this application's filing to the non-signing inventor at the address given in the petition. Notice of the filing of this application will also be published in the Official Gazette.

On petition under 1.47, rule 47 applicant also requests that any patent which may issue from the application be issued to Broadcom Corporation. In this regard, applicant is advised that a decision granting a petition under 37 CFR 1.47 does not alter the ownership interest or title of the application. If the nonownership interest or title of the application. If the non-signing inventor has not signed an assignment document which has been recorded in the USPTO, then the 37 CFR 1.47 applicant (the company that files the petition under 37 CFR 1.47(b) and establishes proprietary interest in the application) is NOT the assignee of the entire interest of the application. Furthermore, the requirements for issuance of the patent to an assignee, including a partial assignee, are provided for in 37 CFR § 3.81, not 37 CFR § 1.47.

Technology Center 2661 has been advised of this decision. application will be examined in due course.

Telephone inquiries regarding this decision should be directed to the undersigned at (703) 305-0309.

or Petitions Attorney

Petitions

## **ASSIGNMENT**

WHEREAS, the undersigned inventors, hereinafter called the "Assignors", have invented a new and useful invention entitled:

## DOCSIS MAC LAYER-BASED ARQ FOR FIXED WIRELESS

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

WHEREAS, Broadcom Corporation, a USA company having a principal office and place of business at, 16215 Alton Parkway Irvine California 92618-7013 hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all division, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignors do hereby covenant and agree, for themselves and their legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional

papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below.

Anders Hebsgaard	and Oct 31.		
Anders Hebsgaard	date 2003	Mark Dale	date
	date		date
	date		date